INTERNATIONAL SEARCH REPORT

International Application No PCT/JP2005/002525

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01J35/00 B01J23/89 B01D53/94 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) B01J B01D IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to daim No. P,X EP 1 494 304 A (NISSAN MOTOR CO., LTD) 1-3,6-14 5 January 2005 (2005-01-05) paragraphs '0027!, '0029!, '0046!, '0049! examples 12,13 US 6 221 805 B1 (YAMASHITA KOICHI ET AL) 1-14 X 24 April 2001 (2001-04-24) examples 10-16 US 6 083 467 A (TAKESHIMA ET AL) 1-3,5-14X 4 July 2000 (2000-07-04) column 6, line 53 - line 65 claim 4; examples 3-6,10 -/--[X] Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the International "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed Invention cannot be considered to involve an invention member and the considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. O document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the International search Date of mailing of the international search report 22 April 2005 02/05/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Besselmann, S

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INTERNATIONAL SEARCH REPORT

Investigation No
PCT/JP2005/002525

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Perevani to Camino.
х	US 4 714 693 A (TARGOS ET AL) 22 December 1987 (1987-12-22) column 6, line 57 - line 68 example IV	1-4,6-14
X	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 01, 31 January 1996 (1996-01-31) -& JP 07 246343 A (KATSUHIKO WAKABAYASHI), 26 September 1995 (1995-09-26) abstract paragraphs '0010!, '0013!, '0026!	1-3,6-14
X	US 5 977 012 A (KHARAS ET AL)	1,3-5,14
Α	2 November 1999 (1999-11-02) claims 3,4	6-13
	column 4, line 12 - line 35 column 6, line 34 - line 36	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/JP2005/002525

Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
EP 1494304		05-01-2005	JP	2005034836	A	10-02-2005
2. 0.0.00	••		EP	1494304	A1	05-01-2005
			US	2005003959	A1	06-01-2005
US 6221805	B1	24-04-2001	JP	11314035	 A	16-11-1999
•• •=====		<u>-</u>	DE	69917099	D1	17-06-2004
			DE	69917099		23-09-2004
			EP	0940176	A2	08-09-1999
US 6083467	Α	04-07-2000	JP	3466856	 В2	17-11-2003
00 0000.07	••		JP	10216517	A	18-08-1998
			DE	19804587	A1	06-08-1998
US 4714693	Α	22-12-1987	NONE			
JP 07246343	A	26-09-1995	JP	3590854	B2	17-11-2004
US 5977012	Α	02-11-1999	DE	69517687	D1	03-08-2000
55 55,, 612	• •		DE	69517687	T2	28-12-2000
			EP	0762926	A1	19-03-1997
			JP	10501172		03-02-1998
			WO	9532790	A1	07-12-1995